

What is claimed is:

1. A method of monitoring measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:
  - retrieving data representing the measured parameters from a database;
  - 5 mapping the measured parameters to color codes;
  - displaying a graphic representation of the array of electronic equipment;
  - and
  - in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to a measured parameter
  - 10 associated with the piece of electronic equipment.
2. The method according to claim 1, further comprising:
  - determining that a database update has occurred;
  - retrieving updated measured parameters from the database;
  - 15 mapping the updated measured parameter to color codes;
  - re-displaying the graphic representation of the array of electronic equipment; and
  - in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to the updated measured
  - 20 parameter.
3. The method according to claim 1, further comprising:
  - receiving an input from a user interface that indicates a change in view has been selected by an operator;
  - 25 re-displaying the graphic representation of the array of electronic equipment to change to the view selected by the operator; and
  - in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to the measured parameter.

4. The method according to claim 3, wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation.
- 5 5. The method according to claim 3, wherein the graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation.
- 10 6. The method according to claim 1, wherein the graphic representation comprises a three-dimensional graphic representation.
7. The method according to claim 1, wherein the graphic representation comprises a two-dimensional graphic representation.
- 15 8. The method according to claim 1, wherein the measured parameter comprises one of temperature, power, current and voltage.
9. The method according to claim 1, carried out in a programmed processor.
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10. A computer readable storage medium storing instructions that, when executed on a programmed processor, carry out a method of monitoring measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:
- 5        retrieving data representing the measured parameters from a database;  
         mapping the measured parameters to color codes;  
         displaying a graphic representation of the array of electronic equipment;  
and
- in the graphic representation, representing each piece of electronic  
10 equipment in the array with the color mapped to a measured parameter  
associated with the piece of electronic equipment.

11. A method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:
- retrieving data representing the measured parameters from a database;
  - mapping the measured parameters to color codes;
  - 5 displaying a three-dimensional graphic representation of the array of electronic equipment;
  - in the three-dimensional graphic representation, representing each piece of electronic equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment;
  - 10 receiving an input from a user interface that indicates a change in view has been selected by an operator;
  - re-displaying the three-dimensional graphic representation of the array of electronic equipment to change to the view selected by the operator; and
  - in the three-dimensional graphic representation, representing each piece of electronic equipment in the array with the color mapped to the measured parameter.
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12. The method according to claim 11, further comprising:
- determining that a database update has occurred;
  - 20 retrieving updated measured parameters from the database;
  - mapping the updated measured parameter to color codes;
  - re-displaying the three-dimensional graphic representation of the array of electronic equipment; and
  - in the three-dimensional graphic representation, representing each piece of electronic equipment in the array with the color mapped to the updated measured parameter.
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13. The method according to claim 11, wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the three-dimensional graphic representation.

5 14. The method according to claim 11, wherein the measured parameter comprises one of temperature, power, current and voltage.

15. The method according to claim 11, further comprising receiving updated parameters from the electronic equipment and storing the updated parameters in  
10 the database.

16. The method according to claim 11, carried out in a programmed processor.

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17. A computer readable storage medium storing instructions that, when executed on a programmed processor, carry out a method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:

- 5           retrieving data representing the measured parameters from a database;  
          mapping the measured parameters to color codes;  
          displaying a three-dimensional graphic representation of the array of electronic equipment;  
          in the three-dimensional graphic representation, representing each piece
- 10   of electronic equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment;  
          receiving an input from a user interface that indicates a change in view has been selected by an operator;  
          re-displaying the three-dimensional graphic representation of the array of
- 15   electronic equipment to change to the view selected by the operator; and  
          in the three-dimensional graphic representation, representing each piece of electronic equipment in the array with the color mapped to the measured parameter.

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18. A method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:
- retrieving data representing the measured parameters from a database;
  - mapping the measured parameters to color codes;
  - 5 displaying a three-dimensional graphic representation of the array of electronic equipment;
  - determining that a database update has occurred;
  - retrieving updated measured parameters from the database;
  - re-mapping the updated measured parameter to color codes;
  - 10 re-displaying the three-dimensional graphic representation of the array of electronic equipment;
  - receiving an input from a user interface that indicates a change in view has been selected by an operator, wherein the change in view represents a moved, tilted, rotated, panned or zoomed version of the view;
  - 15 re-displaying the three-dimensional graphic representation of the array of electronic equipment to change to the view selected by the operator.; and
  - wherein in each three-dimensional graphic representation, each piece of electronic equipment is represented with the color mapped to the measured parameter.
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19. The method according to claim 18, wherein the measured parameter comprises one of temperature, power, current and voltage.

20. A computer readable storage medium storing instructions that, when executed on a programmed processor, implement a method of displaying measured parameters associated with each piece of equipment in an array of electronic equipment, the instructions carrying out the method by:

5           retrieving data representing the measured parameters from a database;  
          mapping the measured parameters to color codes;  
          rendering a graphic representation of the array of electronic equipment for display on a display; and

          in the graphic representation, representing each piece of electronic  
10 equipment in the array with the color mapped to a measured parameter associated with the piece of electronic equipment.

21. The storage medium according to claim 20, the instructions further carry out the method by:

15           determining that a database update has occurred;  
          retrieving updated measured parameters from the database;  
          mapping the updated measured parameter to color codes;  
          re-displaying the graphic representation of the array of electronic equipment; and

20           in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to the updated measured parameter.



22. The storage medium according to claim 20, the instructions further carry out the method by:

receiving an input from a user interface that indicates a change in view has been selected by an operator;

5 re-displaying the graphic representation of the array of electronic equipment to change to the view selected by the operator; and

in the graphic representation, representing each piece of electronic equipment in the array with the color mapped to the measured parameter.

10 23. The storage medium according to claim 22 wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation.

24. The storage medium according to claim 20, wherein the graphic  
15 representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation.

20 25. The storage medium according to claim 20, wherein the graphic representation comprises a three-dimensional graphic representation.

26. The storage medium according to claim 20, the instructions further carry out the method by receiving updated parameters from the electronic equipment  
25 and storing the updated parameters in the database.

27. A system that displays measured parameters associated with a plurality of pieces of equipment in an array of electronic equipment, comprising:
- a communication circuit that receives data representing the measured parameters from the plurality of pieces of equipment;
  - 5 a computer programmed to carry out the functions of:
    - receiving the data and store the data in a database that relates the measured parameters to the plurality of pieces of equipment;
    - mapping the measured parameters to color codes;
    - rendering a graphic representation of the array of electronic
    - 10 equipment; and
    - wherein, in the graphic representation, each piece of electronic equipment in the array is represented with the color mapped to a measured parameter associated with the piece of electronic equipment.
28. The system according to claim 27, further comprising:
- wherein the communication circuit comprises updates the database with new data on a periodic basis;
  - and wherein the computer program further carries out the functions of:
    - retrieving updated measured parameters from the database;
    - 20 mapping the updated measured parameter to color codes;
    - creating a new rendering of the graphic representation of the array of electronic equipment; and
    - wherein, in the graphic representation, each piece of electronic equipment in the array is represented with the color mapped to the
    - 25 updated measured parameter.

29. The system according to claim 27, further comprising:  
a user interface that receives input that indicates a change in view has been selected by an operator;  
and wherein the computer program includes graphics rendering code that renders a new graphic representation of the array of electronic equipment to change to the view selected by the operator; and  
wherein in the graphic representation, each piece of electronic equipment in the array is represented with the color mapped to the measured parameter.
30. The system according to claim 29, wherein the view selected by the operator comprises one of a panned view and a zoomed view of the graphic representation.
31. The system according to claim 29, wherein the graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view and a zoomed view of the graphic representation.
32. The system according to claim 27, wherein the graphic representation comprises a three-dimensional graphic representation.
33. The system according to claim 27, wherein the graphic representation comprises a two-dimensional graphic representation.
34. The system according to claim 27, wherein the measured parameter comprises one of temperature, power, current and voltage.

35. An apparatus for monitoring measured parameters associated with each piece of equipment in an array of electronic equipment, comprising:

means for retrieving data representing the measured parameters from a database;

5 means for mapping the measured parameters to color codes; and

means for presenting a graphic representation of the array of electronic equipment to a display, wherein in the graphic representation, each piece of electronic equipment in the array is represented with the color mapped to a measured parameter associated with the piece of electronic equipment.

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36. The apparatus according to claim 35, further comprising:

means for determining that a database update has occurred,

wherein, the means for retrieving retrieves updated measured parameters from the database;

15 wherein the means for mapping re-maps the updated measured parameter to color codes; and

wherein the means for presenting presents updates the information presented to the display; and

20 wherein, in the graphic representation, each piece of electronic equipment in the array is represented by the color re-mapped to the updated measured parameter.

37. The apparatus according to claim 35, further comprising:

25 means for receiving an input from a user interface that indicates a change in view has been selected by an operator, wherein the means for presenting re-presents a graphic representation of the array of electronic equipment to change to the view selected by the operator, wherein, in the graphic representation, each piece of electronic equipment in the array is represented by the color mapped to the measured parameter.

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38. A method of monitoring a predetermined parameter in each of a plurality of electrical devices located in a locality, comprising:

generating a user navigable graphical display of graphical representations of the devices as positioned in the locality; and

5 coloring each of the graphical representations of the devices with a predetermined color corresponding to a currently measured value of the predetermined parameter for the corresponding device.

39. The method according to claim 38, further comprising:

10 receiving an updated measured value of the predetermined parameter;

re-generating the user navigable graphical display of graphical representations of the devices as positioned in the locality; and

15 re-coloring each of the graphical representations of the devices with a predetermined color corresponding to the updated measured value of the predetermined parameter for the corresponding device.

40. The method according to claim 39, further comprising:

receiving a navigation input from a user interface that indicates a change in view has been selected by an operator;

20 re-generating the graphic display to change to the view selected by the operator.

41. The method according to claim 40, wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved  
25 view and a zoomed view of the graphic representation.

42. The method according to claim 40, wherein the graphic representation comprises a three-dimensional graphic representation, and wherein the view selected by the operator comprises one of a panned view, a rotated view, a tilted view, a moved view and a zoomed view of the graphic representation.

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43. The method according to claim 38, wherein the graphic representation comprises a three-dimensional graphic representation.

44. The method according to claim 38, wherein the graphic representation  
10 comprises a two-dimensional graphic representation.

45. The method according to claim 38, wherein the measured parameter comprises one of temperature, power, current and voltage.